

prior art

## PATENT ABSTRACTS OF JAPAN

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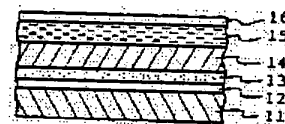
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## (54) OPTICAL MODULATING ELEMENT

(57)Abstract:

PURPOSE: To provide the fully solid-state ND element having high reliability by using an oxide mixture having specific low impedance for a 2nd electrochromic layer.

CONSTITUTION: A 1st electrochromic layer 13 consists of an indium oxide or hydroxide. The 2nd electrochromic layer 15 as against this is formed by using the oxide mixture of the low impedance which is formed by doping a tungsten oxide or molybdenum oxide in the indium oxide and causes a reducing electrochemical reaction. The impedance over the entire part of the element is lowered in this way and the potential balance over the entire part of the system is improved. The electrochromic element having the high reliability and neutral absorption spectral characteristics is obtd. The fully solid-state ND element which can be put into practicable use and has the high reliability is thus obtd.



## LEGAL STATUS

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